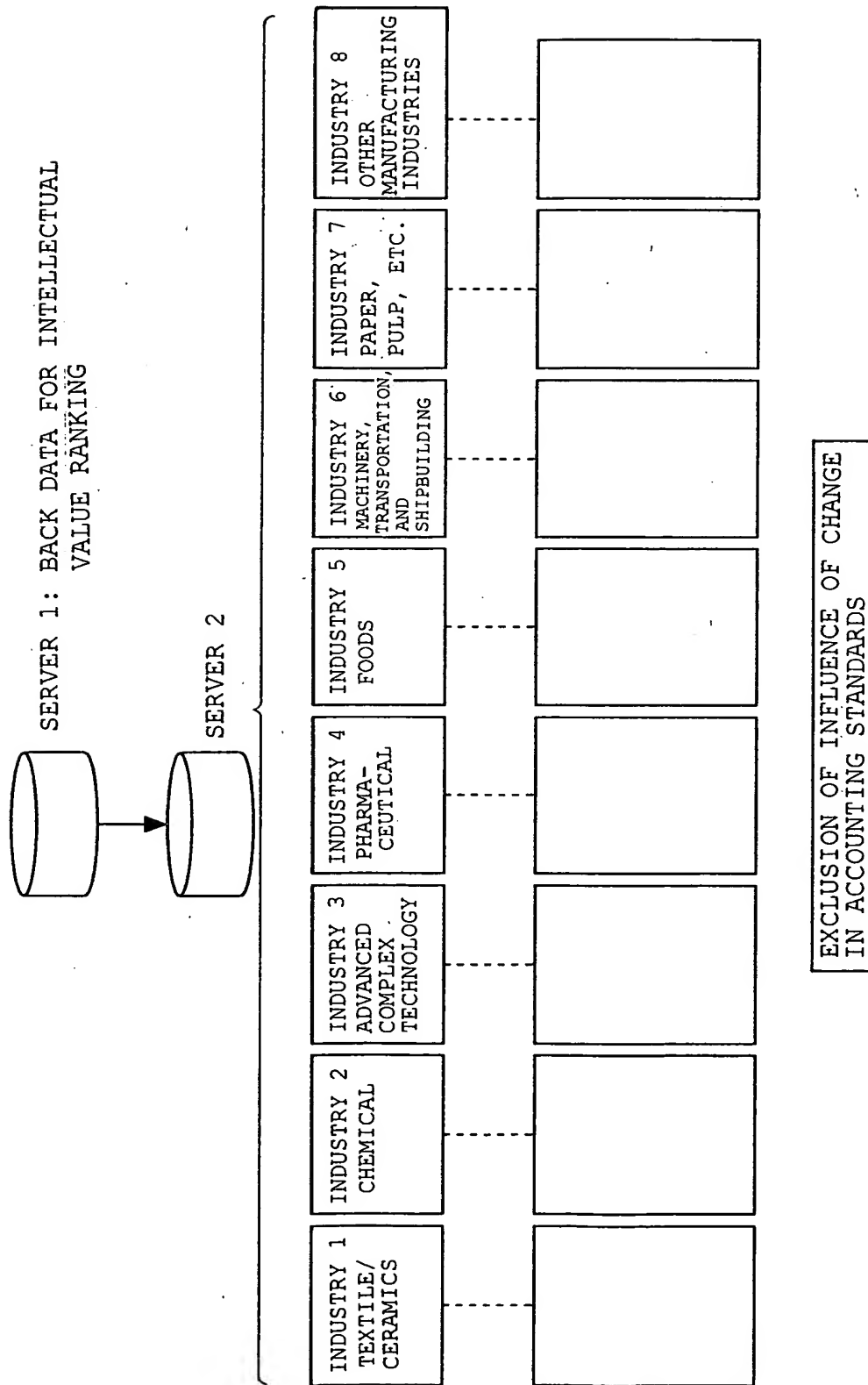


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FIG. 1



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FIG. 2

INDUSTRY 1

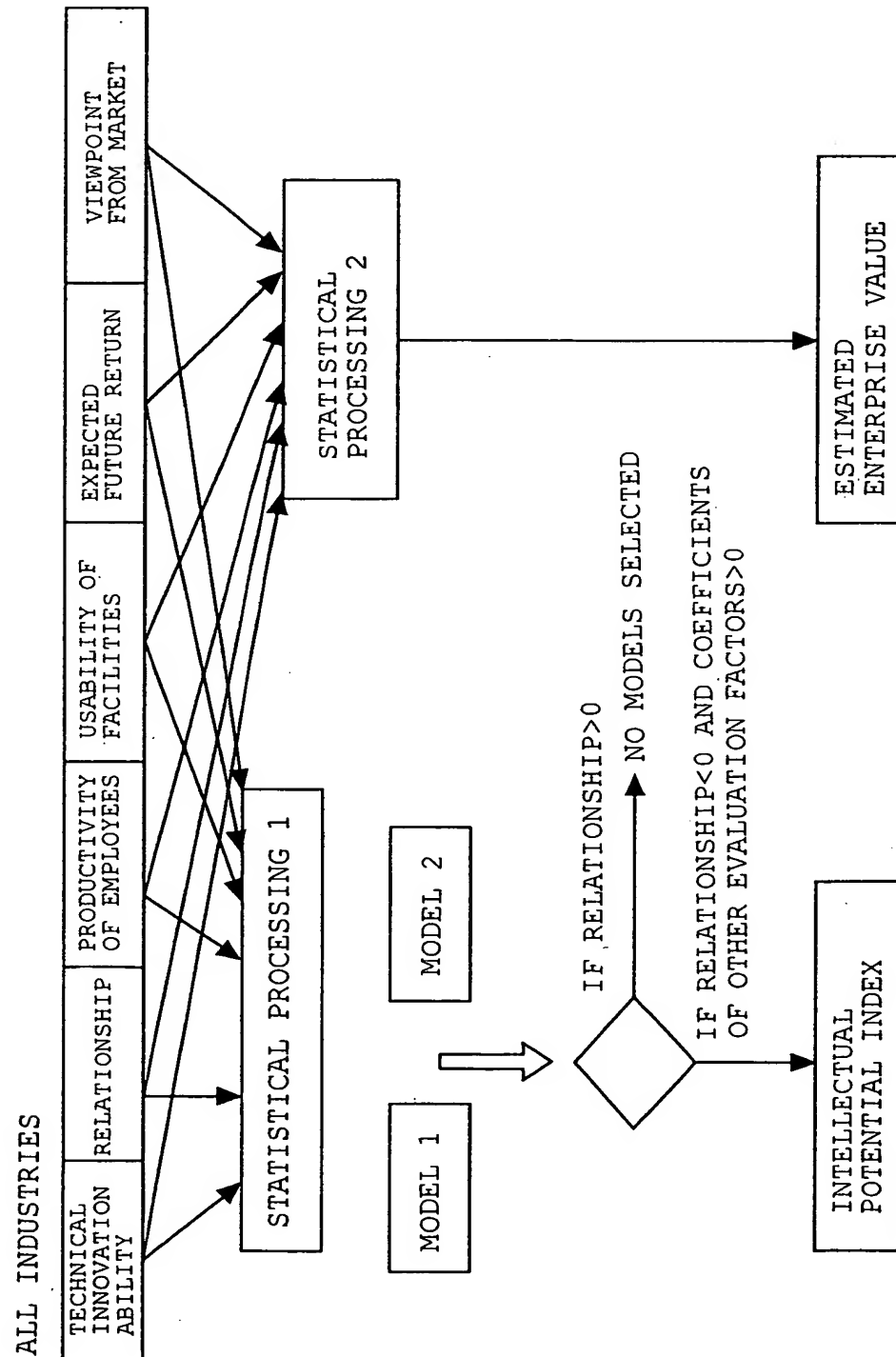
-----INDUSTRY 8

VIEWPOINT FROM MARKET	EXPECTED FUTURE RETURN	USABILITY OF FACILITIES	PRODUCTIVITY OF EMPLOYEES	RELATIONSHIP	TECHNICAL INNOVATION ABILITY
--------------------------	---------------------------	----------------------------	------------------------------	--------------	------------------------------------

--- SAME

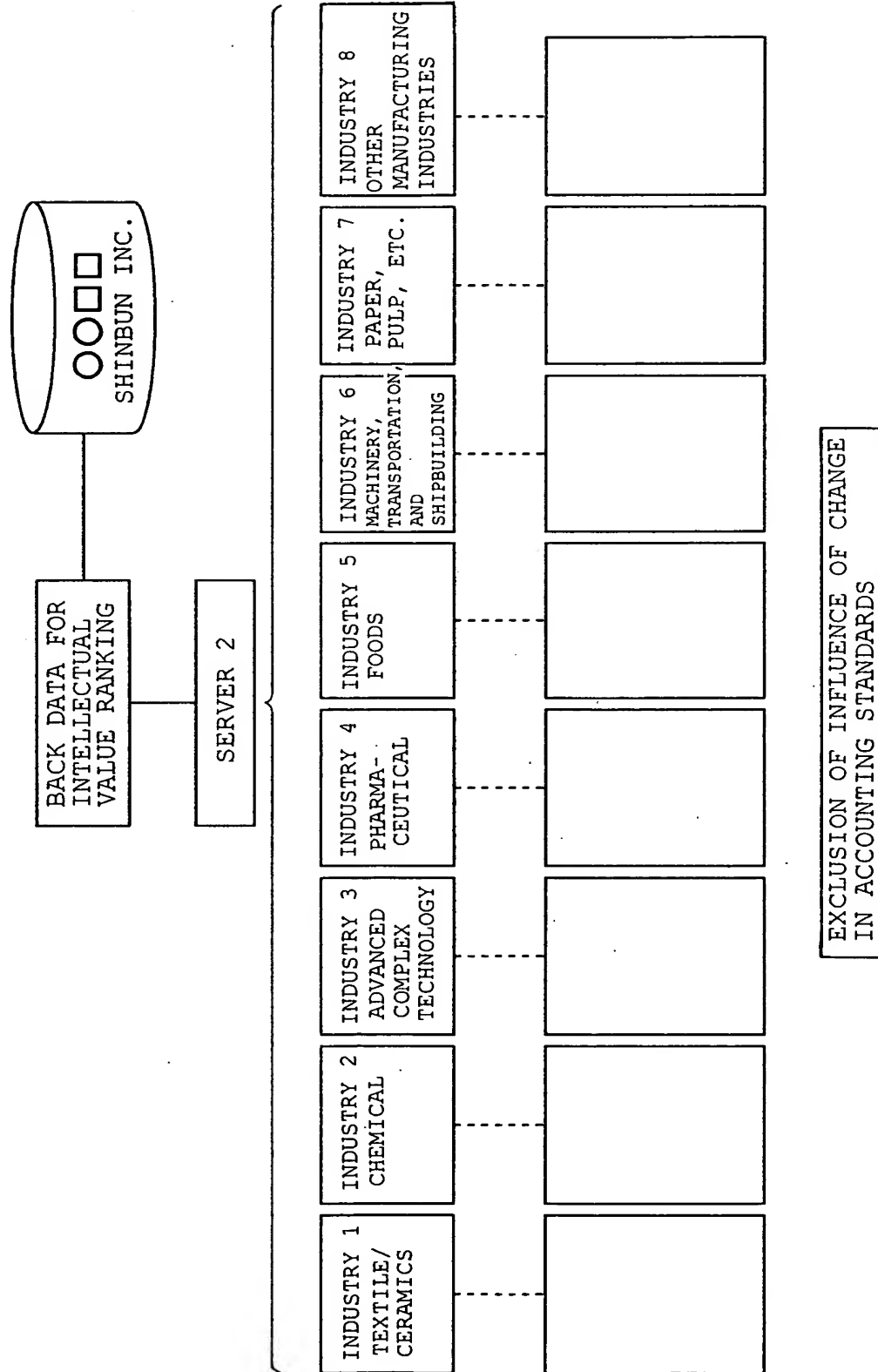
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FIG. 3



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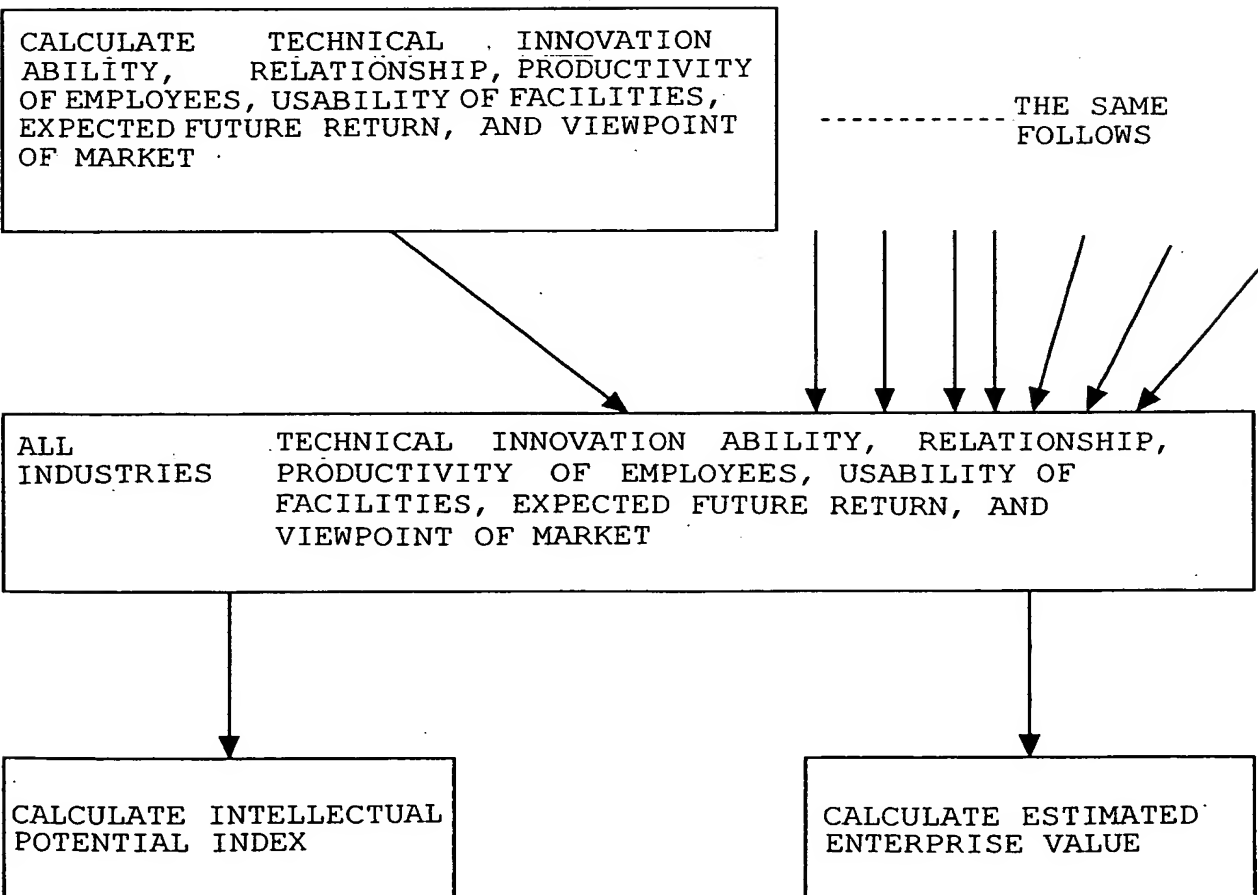
FIG. 4



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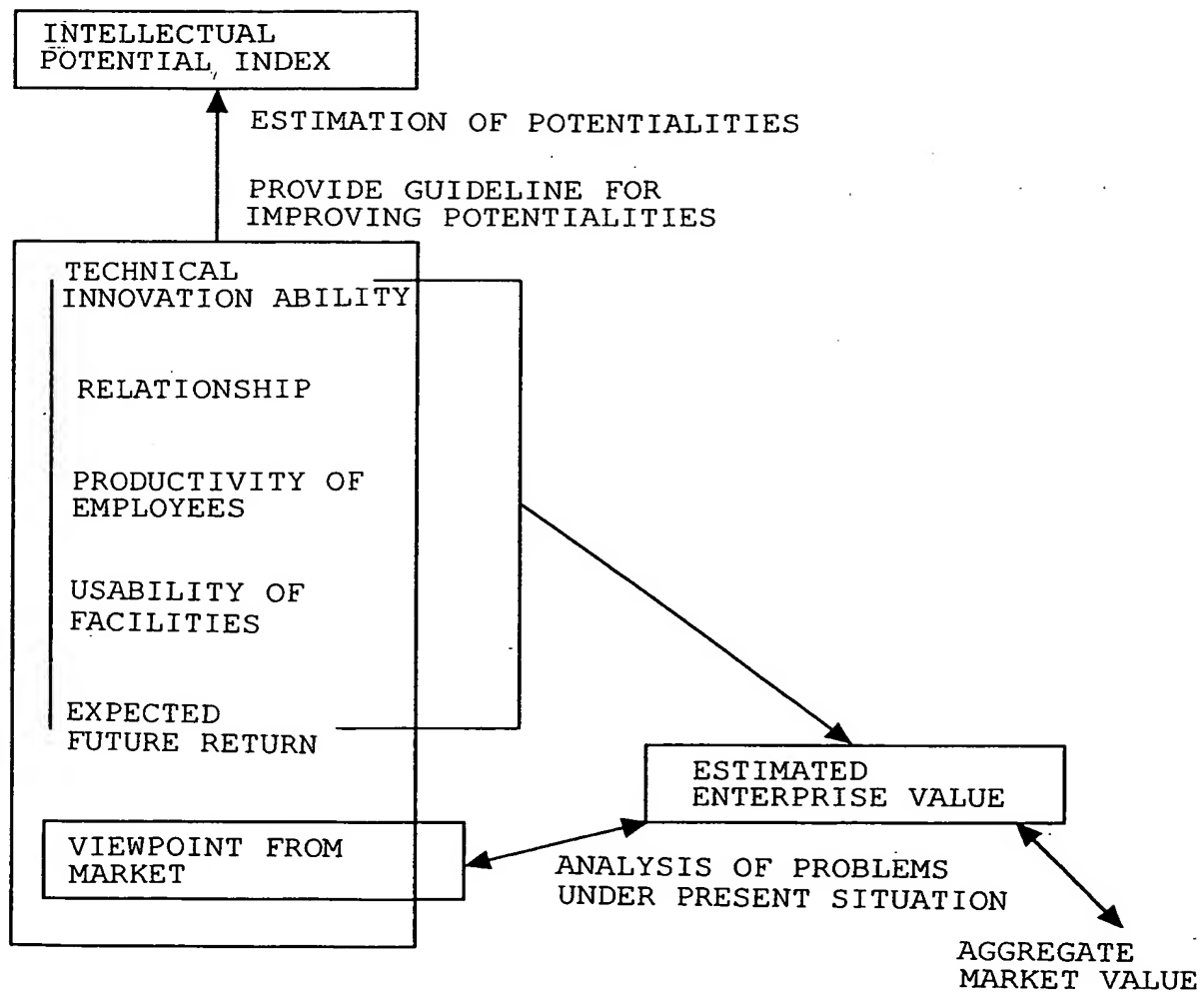
FIG. 5

INDUSTRY 1 ----- INDUSTRY 8



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FIG. 6



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## FIG. 7

◇ BACK DATA FOR INTELLECTUAL VALUE RANKING (PROVISIONAL NAME)  
 ND AND - MEAN THAT THERE IS NO DATA OR DATA CANNOT BE CALCULATED.  
 USE ONLY CONSOLIDATED DATA OF MANUFACTURING INDUSTRY IN NIKKEI 300.  
 USE FISCAL YEAR CONVERSION FOR CHANGE OF SETTLEMENT TERM.  
 NUMBER OF EMPLOYEES AND TANGIBLE FIXED ASSETS IN OPERATING  
 PROFIT/NUMBER OF EMPLOYEES AND OPERATING PROFIT/TANGIBLE FIXED  
 ASSETS ARE AVERAGES AT BEGINNING AND END OF PERIOD.  
 INVENTORY ASSETS OF INVENTORY ASSET TURNOVER PERIOD ARE ALSO AVERAGE  
 AT BEGINNING AND END OF PERIOD. IN PRINCIPLE, RESEARCH AND  
 DEVELOPMENT EXPENSES ARE BASED ON DESCRIPTION IN FINANCIAL REPORT.

CLASSIFICATION NUMBER	ENTERPRISE NAME	YEAR/MONTH OF SETTLEMENT OF ACCOUNT	CONSOLIDATION STANDARD FLAG	NIKKEI INDUSTRIAL CLASSIFICATION	OPERATING PROFIT	RESEARCH AND DEVELOPMENT EXPENSES
		NEAREST YEAR/MONTH	NEAREST		NEAREST MILLION YEN	NEAREST MILLION YEN
T2002	N GROUP HEAD OFFICE	2-Mar	JAPANESE STANDARD	FOODS	15593	5036
T2202	M CONFECTIONERY	2-Mar	JAPANESE STANDARD	FOODS	13043	18838
T7994	O FACTORY	2-Mar	JAPANESE STANDARD	OTHER MANUFACTURING INDUSTRIES	3870	690

RESEARCH AND DEVELOPMENT EXPENSES	RESEARCH AND DEVELOPMENT EXPENSES	ACCUMULATION OF RESEARCH AND DEVELOPMENT EXPENSES IN THREE YEARS	INVENTORY ASSET TURNOVER PERIOD	TOTAL INVENTORY ASSETS	TOTAL INVENTORY ASSETS
ONE PERIOD EARLIER MILLION YEN	TWO PERIODS EARLIER MILLION YEN	MILLION YEN	DAYS	NEAREST MILLION YEN	ONE PERIOD EARLIER MILLION YEN
5071	5006	15163	30.86	35510	31648
17667	15854	52359	46.00	46775	44432
655	552	1897	31.46	11593	15690

CLASSIFICATION NUMBER	ENTERPRISE NAME	SALES/OPERATING PROFIT	OPERATING PROFIT/NUMBER OF EMPLOYEES	NUMBER OF EMPLOYEES	NUMBER OF EMPLOYEES	OPERATING PROFIT/TANGIBLE FIXED ASSETS
		NEAREST MILLION YEN	NEAREST MILLION YEN	NEAREST	ONE PERIOD EARLIER	TIMES
T2002	N GROUP HEAD OFFICE	397173	3.305352411	4684	4751	0.161238787
T2202	M CONFECTIONERY	361867	1.781952319	7287	7352	0.091636895
T7994	O FACTORY	158245	1.106662854	3492	3502	0.075567488

TOTAL TANGIBLE FIXED ASSETS	TOTAL TANGIBLE FIXED ASSETS	TOTAL CAPITAL	TOTAL CAPITAL	AGGREGATE MARKET VALUE
NEAREST	ONE PERIOD EARLIER	NEAREST	ONE PERIOD EARLIER	MONTH END VALUE IN SETTLEMENT TERM HUNDRED MILLION YEN
MILLION YEN	MILLION YEN	MILLION YEN	MILLION YEN	
99450	93965	215355	186138	1806.2777
143528	141139	155990	158408	1777.3163
50017	52408	52386	53136	608.0353

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## FIG. 8

## INDUSTRY 1 TEXTILE/CERAMICS DATA OF EVALUATION FACTORS

CLASSIFICATION NUMBER	NAME OF ENTERPRISE	TECHNICAL INNOVATION ABILITY	RELATIONSHIP	PRODUCTIVITY OF EMPLOYEES	USABILITY OF FACILITIES	EXPECTED FUTURE RETURN	VIEWPOINT FROM MARKET
T000X	X COMPANY	19970	82.02	1.43	0.08	14922.08	125762
T000Y	Y COMPANY	14859	67.74	0.48	0.04	-75.8	106124
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.

## NOTE

TECHNICAL INNOVATION ABILITY: ACCUMULATED RESEARCH AND DEVELOPMENT EXPENSES IN PREVIOUS YEAR

RELATIONSHIP: INVENTORY ASSET TURNOVER PERIOD

PRODUCTIVITY OF EMPLOYEES: OPERATING PROFIT PER EMPLOYEE

USABILITY OF FACILITIES: RATE OF RETURN ON TANGIBLE FIXED ASSETS

EXPECTED FUTURE RETURN: RESIDUAL PROFIT

VIEWPOINT FROM MARKET: AGGREGATE MARKET VALUE AT END OF SETTLEMENT TERM

## CALCULATION EXAMPLE: X COMPANY

ACCUMULATED RESEARCH AND DEVELOPMENT EXPENSES IN PREVIOUS YEARS

$$= 9243 + 10727 = 19970$$

INVENTORY ASSETS 365/INVENTORY ASSET TURNOVER RATIO

$$= 383078 / \{ (82767 + 89397) / 2 \} = 4.45$$

INVENTORY ASSET TURNOVER PERIOD =

$$365 / 4.45 = 82.019$$

OPERATING PROFIT PER EMPLOYEE =  $16332 / \{ (10946 + 11949) / 2 \} = 1.43$

RATE OF RETURN ON

TANGIBLE FIXED ASSET =  $16332 / \{ (244862 + 154198) / 2 \} = 0.082$

RESIDUAL PROFIT =  $16332 \times (1 - 0.4) - (96603 \times 0.04) + 8987 = 14922.08$

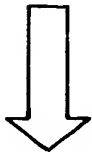


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FIG. 9

## INDUSTRY 1 TEXTILE/CERAMICS

CLASSIFICATION NUMBER	ENTERPRISE NAME	TECHNICAL INNOVATION ABILITY	RELATIONSHIP	PRODUCTIVITY OF EMPLOYEES	USABILITY OF FACILITIES	EXPECTED FUTURE RETURN	VIEWPOINT FROM MARKET
T000X	X COMPANY	19970	82.02	1.43	0.08	14922.08	125762
T000Y	Y COMPANY	14859	67.74	0.48	0.04	-75.8	106124.2

(THE SAME FOLLOWS)

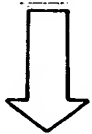


DOWNLOAD EXCEL FILE INTO SPSS  
FILE FOR EACH INDUSTRY AND  
STANDARDIZE EXCEL FILE FOR EACH  
STATISTICAL INDUSTRY DESCRIBED  
IN SPSS

NOTE: USE OPERATING PROFIT  
NUMERICAL VALUES AFTER  
ADJUSTMENT OF INFLUENCE DUE  
TO CHANGE IN ACCOUNTING POLICIES  
FOR PRODUCTIVITY OF EMPLOYEES  
AND USABILITY OF FACILITIES

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET
T000X	X COMPANY	-0.50	0.83	0.10	0.14	-0.24	-0.82
T000Y	Y COMPANY	-0.73	0.06	-1.17	-1.00	-1.39	-0.90

(THE SAME FOLLOWS)



COMBINE STANDARDIZED DATA FILE FOR  
EACH INDUSTRY TO CREATE FILE OF  
STANDARDIZED DATA OF ALL  
INDUSTRIES

NOTE: Z INDICATES  
STANDARDIZED DATA

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET
T000X	X COMPANY	-0.50	0.83	0.10	0.14	-0.24	-0.82
T000Y	Y COMPANY	-0.73	0.06	-1.17	-1.00	-1.39	-0.90
T000n	N COMPANY	1.17	.34	-.25	-.10	.46	.16
T000nz	Z COMPANY	-0.88	0.15	-0.43	-0.51	-0.83	-0.69

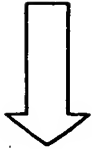


VIEWPOINT FROM MARKET IS SET ON Y AXIS AND OTHER STANDARDIZED EVALUATION FACTORS ARE SEQUENTIALLY SET ON X AXIS TO DRAW SCATTER DIAGRAM OF STANDARDIZED DATA IN SPSS. SUBSEQUENTLY, Z EXPECTED FUTURE RETURN IS SET ON Y AXIS TO REPEAT SAME OPERATION. CONFIRM THAT THERE IS POSITIVE CORRELATION BETWEEN EVALUATION FACTORS SET ON Y AXIS AND EVALUATION FACTORS SET ON X AXIS. MOREOVER, CONFIRM POSITIVE CORRELATION BETWEEN Z VIEWPOINT FROM MARKET AND RESPECTIVE EVALUATION FACTORS IN SIMPLE LINEAR REGRESSION WITH "Z VIEWPOINT FROM MARKET" SET AS EXPLAINED VARIABLE

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET
T000X	X COMPANY	-0.50	0.83	0.10	0.14	-0.24	-0.82
T000Y	Y COMPANY	-0.73	0.06	-1.17	-1.00	-1.39	-0.90
T000nz	Z COMPANY	-0.88	0.15	-0.43	-0.51	-0.83	-0.69

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## FIG. 10



SELECT ALL OF SIX STANDARDIZED EVALUATION FACTORS AS VARIABLES IN SPSS. "BREAKDOWN OF DATA" CHANGES TO "FACTOR ANALYSIS" ACCORDING TO SPSS. SELECT "PRINCIPAL COMPONENT ANALYSIS/VARIANCE COVARIANCE MATRIX" IN "FACTOR SAMPLING". SELECT "SAVE AS VARIABLES" IN "SCORE (VARIANCE SCORE)". EXECUTION.

(PRINCIPAL COMPONENT SCORE COEFFICIENT MATRIX)

	COMPONENT	
	1	2
Z TECHNICAL INNOVATION ABILITY	0.303	-0.285
Z RELATIONSHIP	-0.029	-0.378
Z PRODUCTIVITY OF EMPLOYEES	0.165	0.493
Z USABILITY OF FACILITIES	0.129	0.365
Z EXPECTED FUTURE RETURN	0.343	-0.103
Z VIEWPOINT FROM MARKET	0.323	-0.091

TABLE ON THE LEFT IS DISPLAYED ON OUTPUT REPORT.



CHANGE IN DATA FILE: FAC 1 AND FAC 2 ARE ADDED. FAC 1 AND FAC 2 CORRESPOND TO INDEXES CALCULATED ACCORDING TO TWO MODELS, RESPECTIVELY.

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET	FAC1_2	FAC2_2
T000X	X COMPANY	-0.50	0.83	0.10	0.14	-0.24	-0.82	-0.50	0.04
T000Y	Y COMPANY	-0.73	0.06	-1.17	-1.00	-1.39	-0.90	-1.36	-0.59
T000nz	Z COMPANY	-0.88	0.15	-0.43	-0.51	-0.83	-0.69	-0.94	-0.08

MODEL 1: INDEX (FAC 1) =  $0.303 \times Z \text{ TECHNICAL INNOVATION ABILITY} - 0.029 \times Z \text{ RELATIONSHIP} + 0.165 \times Z \text{ PRODUCTIVITY OF EMPLOYEES} + 0.129 \times Z \text{ USABILITY OF FACILITIES} + 0.343 \times Z \text{ EXPECTED FUTURE RETURN} + 0.323 \times Z \text{ VIEWPOINT FROM MARKET}$

MODEL 2: INDEX (FAC 2) =  $0.285 \times Z \text{ TECHNICAL INNOVATION ABILITY} - 0.378 \times Z \text{ RELATIONSHIP} + 0.493 \times Z \text{ PRODUCTIVITY OF EMPLOYEES} + 0.365 \times Z \text{ USABILITY OF FACILITIES} - 0.103 \times Z \text{ EXPECTED FUTURE RETURN} - 0.091 \times Z \text{ VIEWPOINT FROM MARKET}$



SELECTION OF MODEL

AMONG MODELS DESCRIBED ABOVE, ONLY MODEL 1 IS MODEL, FOR WHICH COEFFICIENT OF ONLY "Z RELATIONSHIP" HAS A MINUS ATTACHED. THIS MEANS THAT SIGNS OF COEFFICIENTS ARE ATTACHED TO ALL EVALUATION FACTORS IN DESIRABLE DIRECTION. THEREFORE, MODEL 1 IS ADOPTED.

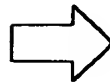


IN SPSS, REARRANGE DATA IN DESCENDING ORDER WITH FAC1\_2 AS REFERENCE.

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET	FAC1_2	FAC2_2
T000F	F COMPANY	4.74	1.62	-0.11	-0.10	4.45	3.60	4.14	-2.91
T000G	G COMPANY	1.81	-1.37	1.10	0.03	3.56	4.25	3.45	-0.20

FIG. 11

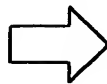
THE REST IS OMITTED.



CHANGE FAC1\_2 TO DEVIATION.

CLASSIFI CATION NUMBER	ENTERPRI SE NAME	TECHNICAL INNOVATION ABILITY	Z	RELATIONS SHIP	Z	PRODUCTIV ITY OF EMPLOYEES	Z	USABILITY OF FACILITIES	Z	EXPECTED FUTURE RETURN	Z	VIEWPOINT FROM MARKET	FAC1_2	FAC2_2	DEVIATION
T000F	F COMPANY	4.74		1.62		-0.11		-0.10		4.45		3.60	4.14	-2.91	91.38
T000G	G COMPANY	1.81		-1.37		1.10		0.03		3.56		4.25	3.45	-0.20	84.48

THE REST IS OMITTED.



SET INDEX OF ENTERPRISE WITH HIGHEST SCORE TO BE 100 TO MOVE DISTRIBUTION. (ADD 8.62 (100-91.38) TO ALL DEVIATIONS.)

CLASSIFI CATION NUMBER	ENTERPRI SE NAME	TECHNICAL INNOVATION ABILITY	Z	RELATION SHIP	Z	PRODUCTIV ITY OF EMPLOYEES	Z	USABILITY OF FACILITIES	Z	EXPECTED FUTURE RETURN	Z	VIEWPOINT FROM MARKET	FAC1_2	FAC2_2	DEVIATION	INTELLECTUAL POTENTIAL INDEX
T000F	F COMPANY	4.74		1.62		-0.11		-0.10		4.45		3.60	4.14	-2.91	91.38	100.00
T000G	G COMPANY	1.81		-1.37		1.10		0.03		3.56		4.25	3.45	-0.20	84.48	93.10

THE REST IS OMITTED.

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FIG. 12

CLASSIFICATION NUMBER	ENTERPRIS E NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET
T000X	X COMPANY	-0.502006918	0.825852516	0.101609965	0.141309586	-0.239440376	-0.817647372
T000Y	Y COMPANY	-0.729981361	0.064580654	-1.173920915	-0.996340473	-1.385563532	-0.903403065
T000nz	Z COMPANY	-0.877620296	0.148839296	-0.432475001	-0.514909266	-0.825216879	-0.690704056

USE STANDARDIZED DATA SAME AS THAT USED FOR CALCULATION OF INTELLECTUAL POTENTIAL INDEX.



IN MULTIPLE REGRESSION ANALYSIS, FOR EXCLUSION OF MULTIPLE COLLINEARITY, INTEGRATE FIVE VARIABLES FROM Z TECHNICAL INNOVATION ABILITY TO Z EXPECTED FUTURE RETURN. USE PRINCIPLE COMPONENT ACCORDING TO VARIANCE-COVARIANCE MATRIX. USE SPSS.

(PRINCIPAL COMPONENT SCORE COEFFICIENT MATRIX)

	COMPONENT	
	1	2
Z TECHNICAL INNOVATION ABILITY	0.367	0.401
Z RELATIONSHIP	-0.083	0.379
Z PRODUCTIVITY OF EMPLOYEES	0.287	-0.437
Z USABILITY OF FACILITIES	0.232	-0.313
Z EXPECTED FUTURE RETURN	0.439	0.228

OUTPUT REPORT



ADOPT COMPONENT 1, FOR WHICH ONLY COEFFICIENT OF "Z RELATIONSHIP" IS MINUS.

INTEGRATED FIVE VARIABLES (PROFIT CREATING ABILITY) =  $0.367 \times Z$  TECHNICAL INNOVATION ABILITY  
 $- 0.083 \times Z$  RELATIONSHIP +  $0.287 \times Z$  PRODUCTIVITY OF EMPLOYEES +  $0.232 \times Z$  USABILITY OF FACILITIES  
 $+ 0.439 \times Z$  EXPECTED FUTURE RETURN



ADD INTEGRATED FIVE VARIABLES (PROFIT CREATING ABILITY) TO FILE.

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## FIG. 13

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET	INTEGRATED FIVE VARIABLES
T000X	X COMPANY	-0.50	0.83	0.10	0.14	-0.24	-0.82	-0.30
T000Y	Y COMPANY	-0.73	0.06	-1.17	-1.00	-1.39	-0.90	-1.51
T000nz	Z COMPANY	-0.88	0.15	-0.43	-0.51	-0.83	-0.69	-0.98



PERFORM MULTIPLE REGRESSION ANALYSIS BY BACKWARD ELIMINATION METHOD WITH INTEGRATED FIVE VARIABLES, NAMELY, Z TECHNICAL INNOVATION ABILITY, Z RELATIONSHIP, Z PRODUCTIVITY OF EMPLOYEES, Z USABILITY OF FACILITIES, Z EXPECTED FUTURE RETURN, AND Z VIEWPOINT FROM MARKET, SET AS EXPLANATORY VARIABLES AND Z VIEWPOINT FROM MARKET SET AS EXPLAINED VARIABLE.

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET	INTEGRATED FIVE VARIABLES	ZPR_1	ZRE_1
T000X	X COMPANY	-0.50	0.83	0.10	0.14	-0.24	-0.82	-0.30	-0.42	-0.82
T000Y	Y COMPANY	-0.73	0.06	-1.17	-1.00	-1.39	-0.90	-1.51	-1.33	0.22
T000nz	Z COMPANY	-0.88	0.15	-0.43	-0.51	-0.83	-0.69	-0.98	-0.92	0.04

NOTE: ZPR IS ESTIMATED VALUE OBTAINED AS A RESULT OF PERFORMING MULTIPLE REGRESSION ANALYSIS AND ZRE IS RESIDUAL.

(COEFFICIENT)		NON-STANDARDIZED COEFFICIENT		STANDARDIZED COEFFICIENT		
MODEL		B	STANDARD ERROR	BETA	t	SIGNIFICANT PROBABILITY
1	(CONSTANT)	1.03E-16	0.048		0	1
	Z TECHNICAL INNOVATION ABILITY	-0.249	0.198	-0.249	-1.257	0.211
	Z RELATIONSHIP	0.104	0.057	0.104	0.104	0.071
	Z PRODUCTIVITY OF EMPLOYEES	-0.216	0.118	-0.216	-0.216	0.069
	Z USABILITY OF FACILITIES	-0.399	0.107	-0.359	-0.359	0
	INTEGRATED FIVE VARIABLES	1.269	0.253	1.299	5014	0
2	(CONSTANT)	7.42E-17	0.048		0	1
	Z RELATIONSHIP	7.01E-02	0.051	0.07	1.387	0.167
	Z PRODUCTIVITY OF EMPLOYEES	-9.63E-02	0.07	-0.096	-1.38	0.017
	Z USABILITY OF FACILITIES	-3.06E-01	0.078	-0.275	-3.946	0
	INTEGRATED FIVE VARIABLES	9.61E-01	0.063	0.984	15.167	0
	(CONSTANT)	7.70E-17	0.048		0	1
3	Z RELATIONSHIP	7.73E-02	0.05	0.077	1.533	0.127
	Z USABILITY OF FACILITIES	-3.56E-01	0.069	-0.32	-5.174	0
	INTEGRATED FIVE VARIABLES	9.32E-01	0.06	0.954	15.524	0
	(CONSTANT)	7.46E-17	0.048		0	1
4	Z RELATIONSHIP	-3.69E-01	0.069	-0.331	-5.377	0
	INTEGRATED FIVE VARIABLES	9.26E-01	0.06	0.948	15.386	0
	(CONSTANT)	7.46E-17	0.048		0	1



BREAKDOWN MODEL FORMULA WITH INTEGRATED FIVE VARIABLES INCLUDED THEREIN. EXAMINE WEIGHTING OF EVALUATION FACTORS.

MODEL 4 IS ADOPTED AUTOMATICALLY SIGNIFICANCE PROBABILITY OF ACCORDING TO OUTPUT REPORT.

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FIG. 14

# MODEL FORMULA

STANDARDIZED DATA ESTIMATED ENTERPRISE VALUE =  $-0.369 \times Z$  USABILITY OF FACILITIES +  $0.926 \times$  INTEGRATED FIVE VARIABLES  
 =  $-0.369 \times Z$  USABILITY OF FACILITIES +  $0.926 (0.367 \times$  TECHNICAL INNOVATION  
 ABILITY -  $0.083 \times$  RELATIONSHIP +  $0.287 \times$  Z PRODUCTIVITY OF EMPLOYEES +  $0.232$   
 $\times$  USABILITY OF FACILITIES +  $0.439 \times$  EXPECTED FUTURE RETURN)  
 =  $0.34 \times$  TECHNICAL INNOVATION ABILITY -  $0.077 \times$  RELATIONSHIP +  $0.266 \times$  PRODUCTIVITY  
 OF EMPLOYEES -  $0.154 \times$  USABILITY OF FACILITIES +  $0.407 \times$  EXPECTED FUTURE RETURN  
 +  $7.46E - 17$

WHEN NON-STANDARDIZED DATA BECOMES MINUS, FIXED NUMBER IS ADDED TO CONSTANT ITEM TO ADJUST  
 NON-STANDARD DATA. ADD 0.5 TO 2001 DATA.

STANDARDIZED DATA ESTIMATED ENTERPRISE VALUE =  $0.34 \times$  TECHNICAL INNOVATION ABILITY -  $0.077 \times$  RELATIONSHIP +  $0.266 \times$  PRODUCTIVITY  
 OF EMPLOYEES -  $0.154 \times$  USABILITY OF FACILITIES +  $0.407 \times$  EXPECTED FUTURE RETURN +  $7.46E - 17 + 0.5$

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET	INTEGRATED FIVE VARIABLES	2PR_1	ZRE_1	ADJUSTED STANDARDIZED ESTIMATED ENTERPRISE VALUE
T000X	COMPANY X	-0.50	0.83	0.10	0.14	-0.24	-0.82	-0.30	-0.42	-0.82	0.17
T000Y	COMPANY Y	-0.73	0.06	-1.17	-1.00	-1.39	-0.90	-1.51	-1.33	0.22	-0.48
T000nz	COMPANY Z	-0.88	0.15	-0.43	-0.51	-0.83	-0.69	-0.98	-0.92	0.04	-0.18

CALCULATE AVERAGE AND DISPERSION OF "VIEWPOINT FROM MARKET" FOR EACH INDUSTRY. MULTIPLY ADJUSTED STANDARDIZED ESTIMATED ENTERPRISE VALUE BY DISPERSION AND ADD AVERAGE TO OBTAIN NON-STANDARDIZED DATA. SET THE NUMERICAL VALUE AS ESTIMATED ENTERPRISE VALUE.

CLASSIFICATION NUMBER	ENTERPRISE NAME	Z TECHNICAL INNOVATION ABILITY	Z RELATIONSHIP	Z PRODUCTIVITY OF EMPLOYEES	Z USABILITY OF FACILITIES	Z EXPECTED FUTURE RETURN	Z VIEWPOINT FROM MARKET	INTEGRATED FIVE VARIABLES	2PR_1	ZRE_1	ADJUSTED STANDARDIZED ESTIMATED ENTERPRISE VALUE	ESTIMATED ENTERPRISE VALUE
T000X	COMPANY X	-0.50	0.83	0.10	0.14	-0.24	-0.82	-0.30	-0.42	-0.82	0.17	352741
T000Y	COMPANY Y	-0.73	0.06	-1.17	-1.00	-1.39	-0.90	-1.51	-1.33	0.22	-0.48	204017
T000nz	COMPANY Z	-0.88	0.15	-0.43	-0.51	-0.83	-0.69	-0.98	-0.92	0.04	-0.18	249558

AVERAGE VALUE OF "VIEWPOINT FROM MARKET" (AGGREGATE MARKET VALUE) OF TEXTILE/CERAMICS: 313001, DISPERSION: 228997  
 ESTIMATED ENTERPRISE VALUE OF X COMPANY  
 AVERAGE VALUE OF "VIEWPOINT FROM MARKET" (AGGREGATE MARKET VALUE) OF OTHER MANUFACTURING INDUSTRIES: 316816,  
 DISPERSION: 370654 ESTIMATED ENTERPRISE VALUE OF Z COMPANY

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FIG. 15

VARIABLE STANDARDIZATION FOR  
RESPECTIVE INDUSTRIES

PHARMACEUTICAL				
T COMPANY	STANDARDIZATION			
TECHNICAL INNOVATION ABILITY	167, 106	→	$\frac{(167, 106 - 98, 441)}{37, 201}$	= 1.85
RELATIONSHIP	35. 68	→	$\frac{(35. 68 - 42. 56)}{11. 32}$	= -0. 61
PRODUCTIVITY OF EMPLOYEES	18. 50	→	$\frac{(18. 50 - 8. 97)}{4. 78}$	= 1. 99
USABILITY OF FACILITIES	1. 30	→	$\frac{(1. 30 - 0. 56)}{0. 31}$	= 2. 36
EXPECTED FUTURE RETURN	212221	→	$\frac{(212221 - 85965)}{52716}$	= 2. 40
VIEWPOINT FROM MARKET	4642000	→	$\frac{(4642000 - 1217228)}{1303391}$	= 2. 63

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*FIG. 16*

INTELLECTUAL POTENTIAL INDEX

T COMPANY

CHANGED TO  
DEVIATION

STANDARDIZED INDEX 2.98  $\Rightarrow$  79.84

· STANDARDIZED INDEX =  $0.303 \times Z$  TECHNICAL INNOVATION  
· ABILITY -  $0.029 \times Z$  RELATIONSHIP +  $0.165 \times Z$  PRODUCTIVITY  
OF EMPLOYEES +  $0.129 \times Z$  USABILITY OF FACILITIES +  $0.343$   
 $\times Z$  EXPECTED FUTURE RETURN +  $0.323 \times Z$  VIEWPOINT FROM  
MARKET

· Z: STANDARDIZED DATA

INTELLECTUAL POTENTIAL INDEX

$$79.84 + (100 - \text{DEVIATION OF TOP ENTERPRISE}) = 88.46$$



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## FIG. 17

ESTIMATED ENTERPRISE VALUE

PHARMACEUTICAL

T COMPANY

ESTIMATED ENTERPRISE VALUE = STANDARDIZED ENTERPRISE VALUE ×  
INDUSTRIAL DEVIATION + INDUSTRIAL  
AVERAGE VALUE

NON-STANDARDIZE

STANDARDIZED ENTERPRISE VALUE 2.316  $\longrightarrow$   $2.316 \times 1303391 + 1217228$   
= 4236036

STANDARDIZED ENTERPRISE VALUE =  $0.34 \times$  TECHNICAL INNOVATION ABILITY  
-  $0.077 \times$  RELATIONSHIP +  $0.266 \times$   
PRODUCTIVITY OF EMPLOYEES -  $0.154$   
USABILITY OF FACILITIES +  $0.407 \times$   
EXPECTED FUTURE RETURN + 7.455E  
- 17 + 0.5 (0.5 IS ADDED FOR  
ADJUSTMENT)